RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _09/710,444C_

Source: _IPWI6_

Date Processed by STIC: _2-8-05_

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: US/09/710,444C : CRF Edit Date: 2-8-05
Edited by: TCL

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

✓ Deleted: ✓ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers; specifically:

_____

___ Moved responses to same line as heading/numeric identifier, specifically:

_____

___ Other:

_____
_____
_____

IFW16

RAW SEQUENCE LISTING   DATE: 02/08/2005
PATENT APPLICATION: US/09/710,444C TIME: 18:11:05

Input Set : **A:\pto.kd.TXT**
Output Set: **N:\CRF4\02082005\I710444C.raw**

```
 3 <110> APPLICANT: Riechmann, Lutz
 4        Kristensen, Peter
 5        Jestin, Jean-Luc
 6        Winter, Gregory
 8 <120> TITLE OF INVENTION: Selection System
10 <130> FILE REFERENCE: 8039/1090
12 <140> CURRENT APPLICATION NUMBER: 09/710,444C
C--> 13 <141> CURRENT FILING DATE: 2000-11-10
15 <150> PRIOR APPLICATION NUMBER: GB 9810223.9
16 <151> PRIOR FILING DATE: 1998-05-13
18 <150> PRIOR APPLICATION NUMBER: GB 9810228.8
19 <151> PRIOR FILING DATE: 1998-05-13
21 <150> PRIOR APPLICATION NUMBER: PCT/GB99/01526
22 <151> PRIOR FILING DATE: 1999-05-13
24 <160> NUMBER OF SEQ ID NOS: 79
26 <170> SOFTWARE: PatentIn version 3.1
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 17
30 <212> TYPE: PRT
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Synthetic linker peptide sequence with protease recognition
sites
35        .
37 <220> FEATURE:
38 <221> NAME/KEY: MISC_FEATURE
39 <222> LOCATION: (1)..(17)
40 <223> OTHER INFORMATION: Synthetic linker peptide sequence with protease recognition
sites
43 <400> SEQUENCE: 1
45 Pro Ala Gly Leu Ser Glu Gly Ser Thr Ile Glu Gly Arg Gly Ala His
46 1               5                   10                  15
49 Glu
53 <210> SEQ ID NO: 2
54 <211> LENGTH: 57
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
61 <220> FEATURE:
62 <221> NAME/KEY: misc_feature
63 <222> LOCATION: (1)..(57)
64 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
67 <400> SEQUENCE: 2
```

68 ggcaccctca gaacggtacc ccaccctcag aggccggctg ggccgccacc ctcagag   57

```
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 89
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
79 <220> FEATURE:
80 <221> NAME/KEY: misc_feature
81 <222> LOCATION: (1)..(89)
82 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
85 <400> SEQUENCE: 3
86 ggtggcggcc cagccggcct ttctgagggg tcgactatag aaggacgagg gcccagcgaa        60
88 ggaggtgggg taccccttc tgagggtgg                                          89
91 <210> SEQ ID NO: 4
92 <211> LENGTH: 89
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
99 <220> FEATURE:
100 <221> NAME/KEY: misc_feature
101 <222> LOCATION: (1)..(89)
102 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
105 <400> SEQUENCE: 4
106 ccaccctcag aaggggtac cccacctcct tcgctgggcc ctcgtccttc tatagtcgac        60
108 ccctcagaaa ggccggctgg gccgccacc                                        89
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 24
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
119 <220> FEATURE:
120 <221> NAME/KEY: misc_feature
121 <222> LOCATION: (1)..(24)
122 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
125 <400> SEQUENCE: 5
126 gcgatggttg ttgtcattgt cggc                                             24
129 <210> SEQ ID NO: 6
130 <211> LENGTH: 24
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: (1)..(24)
140 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
143 <400> SEQUENCE: 6
```

RAW SEQUENCE LISTING   DATE: 02/08/2005
PATENT APPLICATION: US/09/710,444C   TIME: 18:11:05

Input Set : **A:\pto.kd.TXT**
Output Set: **N:\CRF4\02082005\I710444C.raw**

144 aaaagaaacg caaagacacc acgg   24
147 <210> SEQ ID NO: 7
148 <211> LENGTH: 23
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <222> LOCATION: (1)..(23)
158 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
161 <400> SEQUENCE: 7
162 cctcctgagt acggtgatac acc   23
165 <210> SEQ ID NO: 8
166 <211> LENGTH: 24
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Synthetic PCR primer used to screen for recombinant clones.
173 <220> FEATURE:
174 <221> NAME/KEY: misc_feature
175 <222> LOCATION: (1)..(24)
176 <223> OTHER INFORMATION: Synthetic PCR primer used to screen for recombinant clones
179 <400> SEQUENCE: 8
180 gtaaattcag agactgcgct ttcc   24
183 <210> SEQ ID NO: 9
184 <211> LENGTH: 26
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Synthetic PCR primer used to screen for recombinant clones.
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: (1)..(26)
194 <223> OTHER INFORMATION: Synthetic PCR primer used to screen for recombinant clones
197 <400> SEQUENCE: 9
198 attttcggtc atagcccct tattag   26
201 <210> SEQ ID NO: 10
202 <211> LENGTH: 65
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Synthetic PCR primer recognizing FLAG tag nucleotide
sequence.
209 <220> FEATURE:
210 <221> NAME/KEY: misc_feature
211 <222> LOCATION: (1)..(65)
212 <223> OTHER INFORMATION: Synthetic PCR primer recognizing FLAG tag nucleotide
sequence
215 <400> SEQUENCE: 10
216 caaacgggcg gccgcagact acaaggatga cgacgacaag gaaactgttg aaagttgttt   60

RAW SEQUENCE LISTING   DATE: 02/08/2005
PATENT APPLICATION: US/09/710,444C   TIME: 18:11:05

Input Set : **A:\pto.kd.TXT**
Output Set: **N:\CRF4\02082005\I710444C.raw**

```
218 agcaa                                                              65
221 <210> SEQ ID NO: 11
222 <211> LENGTH: 51
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Synthetic PCR primer used to change codon usage in
recombinant cl
228       ones.
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (1)..(51)
233 <223> OTHER INFORMATION: Synthetic PCR primer used to change codon usage in
recombinant cl
234       ones
237 <400> SEQUENCE: 11
238 cccctcagaa aggccggctg ggccgccgcc agcattgaca ggaggttcag g            51
241 <210> SEQ ID NO: 12
242 <211> LENGTH: 52
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Synthetic PCR primer used to change codon usage in
recombinant cl
248       ones.
250 <220> FEATURE:
251 <221> NAME/KEY: misc_feature
252 <222> LOCATION: (1)..(52)
253 <223> OTHER INFORMATION: Synthetic PCR primer used to change codon usage in
recombinant cl
254       ones
257 <400> SEQUENCE: 12
258 gaaggaggtg gggtacccgg ttccgagggt ggttccggtt ccggtgattt tg           52
261 <210> SEQ ID NO: 13
262 <211> LENGTH: 36
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening.
269 <220> FEATURE:
270 <221> NAME/KEY: misc_feature
271 <222> LOCATION: (1)..(36)
272 <223> OTHER INFORMATION: Synthetic PCR primer for vector construction/screening
275 <400> SEQUENCE: 13
276 ccctcggaac cggtacccca gctgcttcgt gggccc                             36
279 <210> SEQ ID NO: 14
280 <211> LENGTH: 47
281 <212> TYPE: DNA
282 <213> ORGANISM: Bacillus amyloliquefaciens
284 <400> SEQUENCE: 14
285 ctggcggcgg cccagccggc cctgcacagg ttatcaacac gtttgac                 47
288 <210> SEQ ID NO: 15
289 <211> LENGTH: 43
```

```
290 <212> TYPE: DNA
291 <213> ORGANISM: Bacillus amyloliquefaciens
293 <400> SEQUENCE: 15
294 ctcggaaccg gtacctctga tttttgtaaa ggtctgataa gcg                    43
297 <210> SEQ ID NO: 16
298 <211> LENGTH: 44
299 <212> TYPE: DNA
300 <213> ORGANISM: Gallus gallus
302 <400> SEQUENCE: 16
303 ggcggcccag ccggcctttc tctctctgac gaggacttca aggc                   44
306 <210> SEQ ID NO: 17
307 <211> LENGTH: 41
308 <212> TYPE: DNA
309 <213> ORGANISM: Gallus gallus
311 <400> SEQUENCE: 17
312 cctcggaacc ggtaccgaag agtcctttct ccttcttgag g                      41
315 <210> SEQ ID NO: 18
316 <211> LENGTH: 18
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Synthetic PCR primer used for library construction.
323 <220> FEATURE:
324 <221> NAME/KEY: misc_feature
325 <222> LOCATION: (1)..(18)
326 <223> OTHER INFORMATION: Synthetic PCR primer used for library construction
329 <400> SEQUENCE: 18
330 tacgccaagc ttgcatgc                                                18
333 <210> SEQ ID NO: 19
334 <211> LENGTH: 17
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Synthetic PCR primer used for library construction.
341 <220> FEATURE:
342 <221> NAME/KEY: misc_feature
343 <222> LOCATION: (1)..(17)
344 <223> OTHER INFORMATION: Synthetic PCR primer used for library constuction
347 <400> SEQUENCE: 19
348 ctgcacctgg gccatgg                                                 17
351 <210> SEQ ID NO: 20
352 <211> LENGTH: 17
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial sequence
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Synthetic PCR primer used for library construction.
359 <220> FEATURE:
360 <221> NAME/KEY: misc_feature
361 <222> LOCATION: (1)..(17)
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 02/08/2005
PATENT APPLICATION: US/09/710,444C   TIME: 18:11:06

Input Set : **A:\pto.kd.TXT**
Output Set: **N:\CRF4\02082005\I710444C.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:21; N Pos. 23,24,29,55,56,81,97,101,102
Seq#:22; N Pos. 18,19,20,21
Seq#:26; N Pos. 14,15,20,46,47
Seq#:31; N Pos. 22,38,42,43
Seq#:34; N Pos. 22,43,44
Seq#:40; N Pos. 9,10,11,12
Seq#:51; N Pos. 19,20,21,22,23,24
Seq#:76; Xaa Pos. 36,38
Seq#:79; Xaa Pos. 1

VERIFICATION SUMMARY   DATE: 02/08/2005
PATENT APPLICATION: US/09/710,444C   TIME: 18:11:06

Input Set : **A:\pto.kd.TXT**
Output Set: **N:\CRF4\02082005\I710444C.raw**

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:1822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:32
L:1884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0

IFW16

RAW SEQUENCE LISTING   DATE: 02/02/2005
PATENT APPLICATION: US/09/710,444C   TIME: 10:50:24

        Input Set : A:\00023566.txt
        Output Set: N:\CRF4\02022005\I710444C.raw

   3 <110> APPLICANT: Riechmann, Lutz
   4   Kristensen, Peter
   5   Jestin, Jean-Luc
   6   Winter, Gregory
   8 <120> TITLE OF INVENTION: Selection System
  10 <130> FILE REFERENCE: 8039/1090
  12 <140> CURRENT APPLICATION NUMBER: 09/710,444C
C--> 13 <141> CURRENT FILING DATE: 2000-11-10
  15 <150> PRIOR APPLICATION NUMBER: GB 9810223.9
  16 <151> PRIOR FILING DATE: 1998-05-13
  18 <150> PRIOR APPLICATION NUMBER: GB 9810228.8
  19 <151> PRIOR FILING DATE: 1998-05-13
  21 <150> PRIOR APPLICATION NUMBER: PCT/GB99/01526
  22 <151> PRIOR FILING DATE: 1999-05-13
  24 <160> NUMBER OF SEQ ID NOS: 79
  26 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply
Corrected Diskette Needed
(p.1)

ERRORED SEQUENCES

  1861 <210> SEQ ID NO: 79
  1862 <211> LENGTH: 4
  1863 <212> TYPE: PRT
  1864 <213> ORGANISM: Artificial sequence
  1866 <220> FEATURE:
  1867 <223> OTHER INFORMATION: Factor Xa protease cleavage sequence.
  1869 <220> FEATURE:
  1870 <221> NAME/KEY: MISC_FEATURE
  1871 <222> LOCATION: (1)..(1)
  1872 <223> OTHER INFORMATION: X can be either Ile or Leu.
  1876 <220> FEATURE:
  1877 <221> NAME/KEY: MISC_FEATURE
  1878 <222> LOCATION: (1)..(4)
  1879 <223> OTHER INFORMATION: Factor Xa proteolytic cleavage site.
  1882 <400> SEQUENCE: 79
W--> 1884 Xaa Glu Gly Arg
     1886 1
E--> 1889 ??
E--> 1891 ??
E--> 1892 (continued...)
E--> 1894 (continued...)   deleted

VERIFICATION SUMMARY   DATE: 02/02/2005
PATENT APPLICATION: US/09/710,444C   TIME: 10:50:25

Input Set : **A:\00023566.txt**
Output Set: **N:\CRF4\02022005\I710444C.raw**

```
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:1822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:32
L:1884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0
L:1889 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:1889 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:1891 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:79
L:1891 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:1891 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
M:332 Repeated in SeqNo=79
L:1892 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:1892 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:1894 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:1894 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:1894 M:252 E: No. of Seq. differs, <211> LENGTH:Input:4 Found:6 SEQ:79
```